Ameniments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A backup server for enabling a data communications network to recover from a local server failure, the data communications network including a local server and a network access server (NAS), the NAS capable of coupling a call placed from a call in user to the data communications network and providing a network connection to the local server, the NAS having a memory associated therewith, said the backup server comprising: an information packet receiver responsive to the local server failure, the information packet receiver receiving from the a memory associated with the a network access server (NAS) an information packet associated with an ongoing call placed by the call-in user via the NAS, the information packet containing call information for maintaining connection of the ongoing call if the local server fails, the NAS capable of coupling a call placed from the call-in user to the data communications network and providing a network connection to the local server; and

a parser for reconstructing the call information from the information packet, such that the backup server maintains the ongoing call to the data communications network.

- 2. (Previously Presented) A backup server according to claim 1, wherein the call information comprises server-state attribute (SSA) having an attribute/value pair that can be parsed into a plurality of separate data entries.
- 3. (Previously Presented) A backup server according to claim 1, wherein the information packet further comprises a plurality of aggregated data elements from a call attribute table.

- 4. (Currently Amended) A backup server according to claim 3, wherein the plurality of aggregated data elements are separated by said the parser for reconstructing the call information from the information packet.
- 5-8. (Cancelled)
- 9. (Currently Amended) A local server for enabling a data communications network to recover from a failure of said the local sever, the data communications network including a backup server and a network access server (NAS), the NAS capable of coupling a call placed from a call-in user to the data communications network and providing a network connection to the local server, the NAS having a memory associated therewith, said the local server comprising:
  - an encoder for generating an information packet associated with an ongoing call placed by the call-in user via the a network access server (NAS), the NAS capable of coupling a call placed from the call-in user to the data communications network and providing a network connection to the local server, the information packet containing call information for maintaining connection of the ongoing call if the local server fails; and a sender for transmitting the information packet from the encoder to the a memory associated with the NAS, the information packet being stored in the memory to be available to the backup server if the local server fails.
- 10. (Previously Presented) A local server according to claim 9, wherein the call information comprises server-state attribute (SSA) having an attribute/value pair that can be parsed into a plurality of separate data entries.

- 11. (Previously Presented) A local server according to claim 9, wherein the information packet further comprises a plurality of aggregated data elements from a call attribute table.
- 12. (Currently Amended) A local server according to claim 11, wherein the plurality of aggregated data elements are separated by said the parser for reconstructing the call information from the information packet.
- 13. (Currently Amended) A system for maintaining a call placed by a call-in user to a data communications network, the network including a local sever servicing the call, a network access server (NAS) capable of coupling the call to the data communications-network and providing a network connection to the local server a backup server, and a failure detector for detecting a failure of the local server, the system comprising:
  - a memory associated to the a network access server (NAS), the NAS capable of coupling a call placed from the call-in user to the data communications network and providing a network connection to a local server;
  - an encoder associated with the local server for generating an information packet associated with an ongoing call placed by the call-in user via the NAS, wherein the information packet containing call information for maintaining connection of the ongoing call if the local server fails;
  - a sender for transmitting the information packet from said the encoder to said a memory associated with the NAS, the information packet being stored in said the memory;

- a call coupler associated with the NAS for coupling the call to the local server if the local server does not fail, and for coupling the call to the backup server if the local server fails;
- an information packet forwarder for transmitting the information packet from said the associated memory to the backup server if the local server fails; and
- a parser associated with the backup server for reconstructing the call information from the information packet such that the backup server can recover the call information and serve the call without disconnecting the user from the network.
- 14. (Currently Amended) A system according to claim 13, wherein said the information packet forwarder comprises:
  - an information packet requester associated with the backup server for requesting the information packet from said the memory associated with the NAS in response to the call received from the NAS, if the call information is not available to the backup server.
- 15. (Currently Amended) A system according to claim 14, wherein said the information packet requester requests the information packet from said the memory if the call information is not available to the backup server.
- 16. (Currently Amended) A system according to claim 14, wherein said the information packet forwarder further comprises:
  - an information packet sender associated with the NAS, for transmitting the information packet in response to a request from said the information packet requester.

- 17. (Currently Amended) A network access server (NAS) for maintaining a call placed from a call-in user to a data communications network, the data communications network including a local server for servicing the call, and a backup server capable of servicing the call, said

  NAS capable of coupling the call to the data communications network and providing a network connection to the local server, said the NAS comprising:
  - a receiver for receiving an information packet from the <u>a</u> local server, the information packet associated with an ongoing call placed to the NAS by the call-in user, the information packet containing context data of the ongoing call for maintaining connection of the ongoing call;

an associated memory for storing the information packet;

- a failure detector for determining if a failure of the <u>a</u> local server has occurred; and a sender for transmitting the information packet from the associated memory to the <u>a</u> backup server if the local server failure has occurred, the NAS capable of coupling a call placed from the call-in user to the data communications network and providing a network connection to the local server.
- 18. (Previously Presented) A NAS according to claim 17, wherein the call information comprises server-state attribute (SSA) data having an attribute/value pair that can be parsed into a plurality of separate data entries.
- 19. (Previously Presented) A NAS according to claim 17, wherein the information packet further comprises a plurality of aggregated data elements from a call attribute table.

- 20. (Currently Amended) A server backup system for maintaining an ongoing call placed by a call-in user to a network, the network including a server servicing the call, a network access server (NAS) capable of coupling the call from the user to the network and providing a network connection to the server, and a memory associated with the NAS, said the system comprising:
  - a backup server connected to the network, said the backup server being capable of servicing the call;
  - an encoder associated with the <u>a</u> server <u>servicing the call</u>, <u>said the</u> encoder generating an information packet associated with an ongoing call placed by the call-in user via the <u>a</u> network access server (NAS) capable of coupling the call from the user to the network and providing a network connection to the server, the information packet containing call information for maintaining connection of the ongoing call;
  - a sender associated with the server, said the sender transmitting the information packet to the

    a memory associated with the NAS, the memory storing the information packet;
  - a call coupler associated with the NAS, said the call coupler rolling over the call to said the backup server if the server fails;
  - an information packet requester associated with said the backup server, for requesting the information packet from the memory associated with the NAS in response to the call received from the NAS, if the call information is not available to the backup server; and a parser associated with said the backup server, for reconstructing the call information from the information packet.

- 21. (Previously Presented) A server backup system according to claim 20, wherein the call information comprises server-state attribute data having an attribute/value pair that can be parsed into a plurality of separate data entries.
- 22. (Previously Presented) A server backup system according to claim 20, wherein the information packet further comprises a plurality of aggregated data elements from a call attribute table.
- 23. (Currently Amended) A server backup system according to claim 22, wherein the plurality of aggregated data elements of the information packet are separated by said the parser for reconstructing the call information from said the information packet.
- 24. (Previously Presented) A server backup system according to claim 20, wherein the server is a resource pool manager server (RPMS).
- 25. (Cancelled)
- 26. (Previously Presented) A server backup system according to claim 20, further comprising: a failure detector associated with the NAS, for detecting the failure of the server.
- 27-29. (Cancelled)
- 30. (Currently Amended) A server backup system for maintaining an ongoing call placed by a call-in user to a network, the network and a failure detector connected to the network for

determining whether said server access failure has occurred, said memory and said failure detector both associated with a network access server (NAS) that is connected to said network, said the system comprising:

a first server connected to the network for servicing the call;

a second server connected to the network for servicing the call if the first server fails; and a network access server (NAS) capable of coupling a call placed by a call-in user to the network and providing a network connection to a server, said the NAS coupling the call from the call-in user to said the first server if said the first server does not fail, and coupling the call to said the second server if the first server fails, said the NAS including a memory associated therewith,

wherein said the first server comprises comprising:

an encoder for generating an information packet associated with an ongoing call placed by the call-in user via the NAS, the information packet containing call information for maintaining connection of the ongoing call if the first server fails; and a sender for transmitting the information packet from said the encoder to the memory associated with the NAS, the memory storing the information packet, and wherein said the second server comprises comprising:

an information packet requester for requesting the information packet from the memory in response to the call received from the NAS, if the call information is not available to the second server; and

a parser for reconstructing the call information from the information packet.

31. (Currently Amended) A server backup system according to claim 30, wherein said the NAS further comprises:

a failure detector for detecting the failure of said the second server.

- 32. (Currently Amended) A server backup system according to claim 30, wherein said the first server is a resource pool manager server (RPMS) and said the second server is a backup RPMS.
- 33-51. (Canceled)
- 52. (Currently Amended) A NAS according to claim 17, wherein said the sender transmits the information packet in response to a request from the backup server.
- 53-62. (Cancelled)
- 63. (Currently Amended) A method performed by a backup server for enabling a data communications network to recover from a local server failure, the data communications network including a network access server (NAS) capable of coupling a call placed from a call-in user to the data communications network and providing a network connection to a local server, the NAS having a memory associated therewith, said the method comprising: receiving an information packet from the a memory associated with the a network access server (NAS) in response to the a local server failure, the NAS capable of coupling a call placed from a call-in user to the data communications network and providing a network connection to a local server, the information packet being associated with an ongoing call placed by the call-in user via the NAS, the information packet containing

call information for maintaining connection of the ongoing call if the local server fails; and

reconstructing the call information from the information packet so as to maintain the ongoing call to the data communications network.

- 64. (Currently Amended) A method according to claim 63, wherein the call information comprises server-state attribute (SSA) data having an attribute/value pair, said the reconstructing comprising:

  parsing the SSA data into a plurality of separate data entries.
- 65. (Currently Amended) A method according to claim 64, further comprising: petitioning to the NAS for the information packet after the NAS requests the call information; and sending the call information to the NAS after completing said the reconstructing.
- 66. (Currently Amended) A method performed by a local server for enabling a data communications network to recover from a failure of said the local sever, the data communications network including a backup server and a network access server (NAS), the NAS capable of coupling a call placed from a call-in user to the data communications network and providing a network connection to the local server, the NAS having a memory associated therewith, said the method comprising:

  generating an information packet associated with an ongoing call placed by the call-in user

via the a network access server (NAS), the information packet containing call information for maintaining connection of the ongoing call if the local server fails, the

NAS capable of coupling a call placed from the call-in user to the data communications

network and providing a network connection to the local server; and

transmitting the information packet to the memory associated with the NAS, the information packet being stored in the memory to be available to the backup server if the local server fails.

- 67. (Currently Amended) A method according to claim 66, wherein the call information comprises server-state attribute (SSA) data having an attribute/value pair, said the method further comprising:
  - encoding a plurality of aggregated data elements from a call attribute table representing the SSA data; and

delimiting information packet into an attribute data string and a value data string.

- 68. (Currently Amended) A method for maintaining a call placed by a call-in user to a data communications network, the network including a local server servicing the call, a network access server (NAS) capable of coupling the call to the data communications network and providing a network connection to the local server, a memory associated to the NAS, a backup server, and a failure detector for detecting a failure of the local server, the method comprising:
  - generating an information packet associated with an ongoing call placed by the call-in user via the a network access server (NAS), wherein the information packet containing call information of an ongoing call for maintaining connection of the call if the local server fails;

- transmitting the information packet to the memory associated with the NAS, the information packet being stored in the a memory associated with the NAS, the NAS capable of coupling a call placed from the call-in user to the data communications network and providing a network connection to the local server;
- coupling the call to the local server if the local server does not fail, and coupling the call to the backup server if the local server fails;
- transmitting the information packet from the memory associated with NAS to the backup server if the local server fails; and
- reconstructing the call information from the information packet such that the backup server can recover the call context and serve the ongoing call without disconnecting the user from the network.
- 69. (Currently Amended) A method performed by a network access server (NAS) for maintaining a call placed from a call-in user to a data communications network, the data communications network including a local server for servicing the call, and a backup server capable of servicing the call, the NAS capable of coupling the call to the data communications network and providing a network connection to the local server, said the method comprising:
  - receiving an information packet from the <u>a</u> local server for servicing the call, the information packet associated with an ongoing call placed by the call-in user via the NAS, the information packet containing call information of the ongoing call for maintaining connection of the ongoing call if the local server fails, the NAS capable of coupling a call placed from the call-in user to the data communications network and providing a network connection to the local server;

storing the information packet in a memory associated with the NAS;

determining if a failure of the local server has occurred; and

transmitting the information packet from the associated memory to the backup server if the local server failure has occurred.

- 70. (Previously Presented) A method according to claim 69, wherein the call information comprises server-state attribute (SSA) data having an attribute/value pair that can be parsed into a plurality of separate data entries.
- 71. (Currently Amended) A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform a method to be performed at a backup server for enabling a data communications network to recover from a local server failure, the data communications network including a network access server (NAS), the NAS capable of coupling a call placed from a call-in user to the data communications network and providing a network connection to the local server, the NAS having a memory associated therewith, said the method comprising:

receiving an information packet from the a memory associated with the a network access server (NAS) in response to the a local server failure, the NAS capable of coupling a call placed from a call-in user to the data communications network and providing a network connection to a local server, the information packet being associated with an ongoing call placed by the call-in user via the NAS, the information packet containing call information for maintaining connection of the ongoing call if the local server fails; and

reconstructing the call information from the information packet so as to maintain the ongoing call to the data communications network.

- 72. (Currently Amended) A program storage device according to claim 71, wherein the call information comprises server-state attribute (SSA) data having an attribute/value pair, said the reconstructing comprising:

  parsing the SSA data into a plurality of separate data entries.
- 73. (Currently Amended) A program storage device according to claim 72, further comprising: petitioning to the NAS for the information packet after the NAS requests the call information; and sending the call information to the NAS after completing said the reconstructing.
- 74. (Currently Amended) A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform a method to be performed at a local server for enabling a data communications network to recover from a failure of said the local sever, the data communications network including a backup server and a network access server (NAS), the NAS capable of coupling a call placed from a call-in user to the data communications network and providing a network connection to the local server, the NAS having a memory associated therewith, said the method comprising: generating an information packet associated with an ongoing call placed by the call-in user via the a network access server (NAS), the information packet containing call information for maintaining connection of the ongoing call if the local server fails, the

NAS capable of coupling a call placed from the call-in user to the data communications network and providing a network connection to the local server; and

transmitting the information packet to the memory associated with the NAS, the information packet being stored in the memory to be available to the backup server if the local server fails.

- 75. (Currently Amended) A program storage device according to claim 74, wherein the call information comprises server-state attribute (SSA) data having an attribute/value pair, said the method further comprising:
  - encoding a plurality of aggregated data elements from a call attribute table representing the SSA data; and

delimiting information packet into an attribute data string and a value data string.

- 76. (Currently Amended) A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform a method to be performed at a network access server (NAS) for maintaining a call placed from a call-in user to a data communications network, the data communications network including a local server for servicing the call, and a backup server capable of servicing the call, the NAS capable of coupling the call to the data communications network and providing a network connection to the local server, said the method comprising:
  - packet associated with an ongoing call placed by the call-in user via the NAS, the information packet containing call information of the ongoing call for maintaining connection of the ongoing call if the local server fails, the NAS capable of coupling a

call placed from the call-in user to the data communications network and providing a network connection to the local server;

storing the information packet in a memory associated with the NAS;

determining if a failure of the local server has occurred; and

transmitting the information packet from the associated memory to the backup server if the

local server failure has occurred.

- 77. (Previously Presented) A program storage device according to claim 76, wherein the call information comprises server-state attribute (SSA) data having an attribute/value pair that can be parsed into a plurality of separate data entries.
- 78. (Currently Amended) An apparatus for enabling a data communications network to recover from a local server failure, the data communications network including a network access server (NAS) capable of coupling a call placed from a call-in user to the data communications network and providing a network connection to the local server, the NAS having a memory associated therewith, said the apparatus comprising:

  means for receiving an information packet from the memory associated with the NAS in response to the local server failure, the information packet being associated with an ongoing call placed by the call-in user via the NAS, the information packet containing call information for maintaining connection of the ongoing call if the local server fails; and

means for reconstructing the call information from the information packet so as to maintain the ongoing call to the data communications network.

- 79. (Currently Amended) An apparatus according to claim 78, wherein the call information comprises server-state attribute (SSA) data having an attribute/value pair, said the means for reconstructing comprising:
  means for parsing the SSA data into a plurality of separate data entries.
- 80. (Currently Amended) An apparatus according to claim 79, further comprising:
  means for petitioning to the NAS for the information packet after the NAS requests the call information; and
  means for sending the call information to the NAS after completing said the reconstructing.
- 81. (Currently Amended) An apparatus for enabling a data communications network to recover from a failure of said the local sever, the data communications network including a backup server and a network access server (NAS), the NAS capable of coupling a call placed from a call-in user to the data communications network and providing a network connection to the local server, the NAS having a memory associated therewith, said the apparatus comprising: means for generating an information packet associated with an ongoing call placed by the call-in user via the NAS, the information packet containing call information for maintaining connection of the ongoing call if the local server fails; and means for transmitting the information packet to the memory associated with the NAS, the information packet being stored in the memory to be available to the backup server if the local server fails.

- 82. (Currently Amended) An apparatus according to claim 81, wherein the call information comprises server-state attribute (SSA) data having an attribute/value pair, said the apparatus further comprising:
  - means for encoding a plurality of aggregated data elements from a call attribute table representing the SSA data; and

means for delimiting information packet into an attribute data string and a value data string.

- 83. (Currently Amended) An apparatus for maintaining a call placed from a call-in user to a data communications network, the data communications network including a local server for servicing the call, and a backup server capable of servicing the call, said the apparatus capable of coupling the call to the data communications network and providing a network connection to the local server, said the apparatus comprising:
  - means for receiving an information packet from the local server, the information packet associated with an ongoing call placed by the call-in user via said the apparatus, the information packet containing call information of the ongoing call for maintaining connection of the ongoing call if the local server fails:

means for storing the information packet in a memory associated with said the apparatus; means for determining if a failure of the local server has occurred; and means for transmitting the information packet from the associated memory to the backup server if the local server failure has occurred.

84. (Previously Presented) An apparatus according to claim 83, wherein the call information comprises server-state attribute (SSA) data having an attribute/value pair that can be parsed into a plurality of separate data entries.

85.	(Previously Presented) A backup server according to claim 1, wherein the call information
	comprises at least one of:
	Dialed Number Information Service (DNIS) address;
	call type;
	Calling Line Identification (CLID); and
	service accounting information.
86.	(Cancelled)
87.	(Previously Presented) A local server according to claim 9, wherein the call information
	comprises at least one of:
	Dialed Number Information Service (DNIS) address;
	call type;
	Calling Line Identification (CLID); and
	service accounting information.
88.	(Previously Presented) A system according to claim 13, wherein the call information
	comprises at least one of:
	Dialed Number Information Service (DNIS) address;
	call type;
	Calling Line Identification (CLID); and
	service accounting information.

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89.	(Previously Presented) A NAS according to claim 17, wherein the call information
	comprises at least one of:
	Dialed Number Information Service (DNIS) address;
	call type;
	Calling Line Identification (CLID); and
	service accounting information.
90.	(Previously Presented) A server backup system according to claim 20, wherein the call
	information comprises at least one of:
	Dialed Number Information Service (DNIS) address;

Calling Line Identification (CLID); and

service accounting information.

91. (Previously Presented) A server backup system according to claim 30, wherein the call information comprises at least one of:

Dialed Number Information Service (DNIS) address;

call type;

call type;

Calling Line Identification (CLID); and

service accounting information.